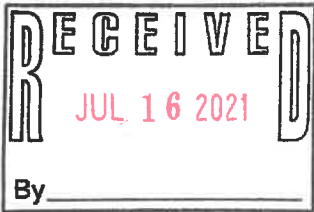


UTILITY BUILDING
SITE PLAN
TAX MAP 129 & 131, LOT 59
ROCHESTER HOUSING AUTHORITY
ROCHESTER, NH



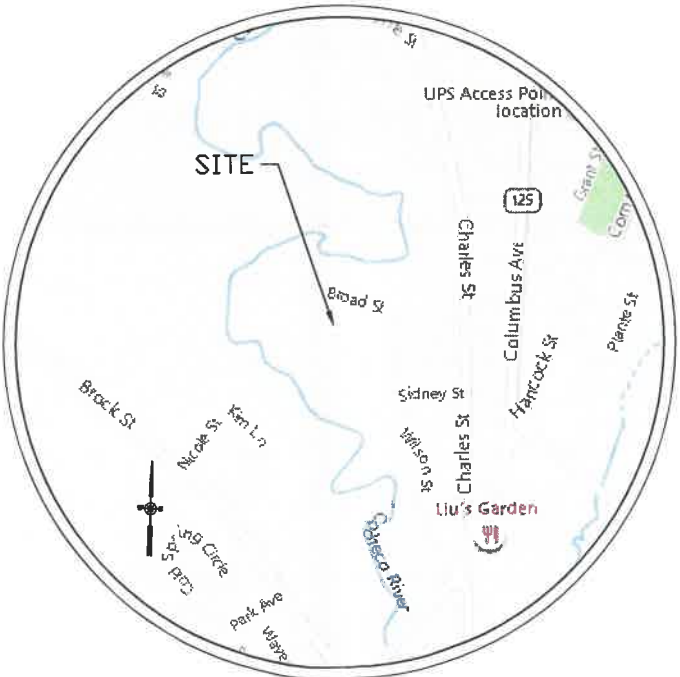
OWNERS OF RECORD/PREPARED FOR:
HOUSING AUTHORITY OF THE CITY OF ROCHESTER
77 OLDE FARM LANE
ROCHESTER, NH 03867

CIVIL ENGINEER:
CIVILWORKS NEW ENGLAND
CIVIL ENGINEERING
181 Watson Road, PO Box 1168
Dover, New Hampshire 03821
603.749.0443

SURVEYOR:
MCENEANEY SURVEY ASSOCIATES OF NEW ENGLAND
P.O. BOX 681
DOVER, NH 03821-0681

ARCHITECT:
PORT ONE ARCHITECTS
959 ISLINGTON STREET
PORTSMOUTH, NH 03801
TEL.# 603-436-8891.

- GENERAL NOTES:**
1. FOR MORE INFORMATION ABOUT THIS SITE PLAN, OR TO SEE THE COMPLETE PLAN SET, CONTACT THE CITY OF ROCHESTER PLANNING DEPARTMENT, CITY HALL ANNEX, 33 WAKEFIELD STREET, ROCHESTER, NH 03867-1917, (603) 335-1338.
 2. ALL OUTSIDE CONSTRUCTION ACTIVITY RELATED TO THE DEVELOPMENT OF THIS SITE IS RESTRICTED TO THE HOURS OF 7:00 A.M. TO 6:00 P.M. MONDAY THROUGH FRIDAY AND 8:00 A.M. TO 6:00 P.M. SATURDAY.
 3. ALL PROPOSED UTILITIES MUST BE UNDERGROUND.
 4. ACCESS TO THE SITE FOR FIRE APPARATUS MUST BE MAINTAINED AT ALL TIMES DURING THE CONSTRUCTION PROCESS. THIS IS THE SOLE RESPONSIBILITY OF THE APPLICANT/DEVELOPER TO MAINTAIN THIS ACCESS. PLEASE CONTACT THE FIRE DEPARTMENT AT 603-335-7545 WITH ANY QUESTIONS ABOUT ACCESS REQUIREMENTS.
 5. THIS DEVELOPMENT MUST BE IN COMPLIANCE WITH ALL APPLICABLE LAW - INCLUDING ALL PERTINENT PROVISIONS OF THE CITY OF ROCHESTER SITE PLAN REGULATIONS - UNLESS OTHERWISE WAIVED.
 6. THIS PROJECT PROPOSES TO DISTURB 0.21 ACRES (8,000 SQ. FT.) ; LESS THAN ONE ACRE OF EXISTING GROUND COVER. THE CONTRACTOR IS RESPONSIBLE TO COMPLY WITH ANY OR ALL OTHER ASPECTS OF CURRENT FEDERAL, STATE AND LOCAL STORM WATER OR NPDES REGULATIONS OR REQUIREMENTS.
 7. THE APPLICANT SHALL OBTAIN A STORMWATER MANAGEMENT PERMIT FROM THE PUBLIC WORKS DEPARTMENT AND FOLLOW THE REQUIREMENTS OF CITY ORDINANCE CHAPTER 50. THE PERMITTEE SHALL PREPARE A WRITTEN PLAN FOR MANAGING STORMWATER THAT ENTERS THE CONSTRUCTION SITE AND SHALL PRESENT IT TO THE INSPECTION ENGINEER AT THE PRECONSTRUCTION MEETING. THE PERMITTEE SHALL FOLLOW BEST MANAGEMENT PRACTICES TO PREVENT EROSION IN AREAS WHERE THE SOIL HAS BEEN DISTURBED.



Location Map
scale 1"=1000'

FINAL APPROVAL BY THE ROCHESTER PLANNING BOARD;
CERTIFIED BY: *BBB* DATE 7/26/21 Approved by PB 6/7/21

INDEX	
Cover Sheet	1
Existing Conditions	2
Demolition Plan	3
Site Plan	4
Grading, Drainage and Erosion Control Plan	5
Utility Plan	6
Detail Sheets	7-9
Architectural Floor Plan and Exterior Elevations	A1.1-A2.1

SHEET NO.	
1	
2	
3	
4	
5	
6	
7-9	
A1.1-A2.1	



SANITARY SEWER STRUCTURE SCHEDULE

SMH A	RIM	= 223.6
SMH B	RIM	= 224.6
SMH C	(NOT FOUND)	

STORM DRAINAGE STRUCTURE SCHEDULE

CB A	RIM	= 222.6
CB B	RIM	= 223.24
INV. IN 15" CMP		= 219.04
INV. OUT 15" CMP		= 218.94
SUMP		= 218.4
CB C	RIM	= 223.6

LEGEND

S.F.	- SQUARE FEET
Ac.	- ACRE
(TYP.)	- TYPICAL
±	- MORE OR LESS
S.C.R.D.	- STRAFFORD COUNTY REGISTRY OF DEEDS
Ø	- DIAMETER
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E	- EASTING
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TBM	- TEMPORARY BENCH MARK
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CMP	- CORRUGATED METAL PIPE
D	- DRAINAGE PIPE
G	- GAS SERVICE
S	- SEWER SERVICE
W	- WATER SERVICE
OHE	- OVERHEAD ELECTRIC SERVICE
OHT	- OVERHEAD TELEPHONE SERVICE
602 2/4	- UTILITY POLE W/ I.D. NUMBERS
GUY WIRE	- GUY WIRE
GAS VALVE	- GAS VALVE
FIRE HYDRANT	- FIRE HYDRANT
WATER SHUT-OFF	- WATER SHUT-OFF
+ 223.4	- EXISTING SPOT GRADE

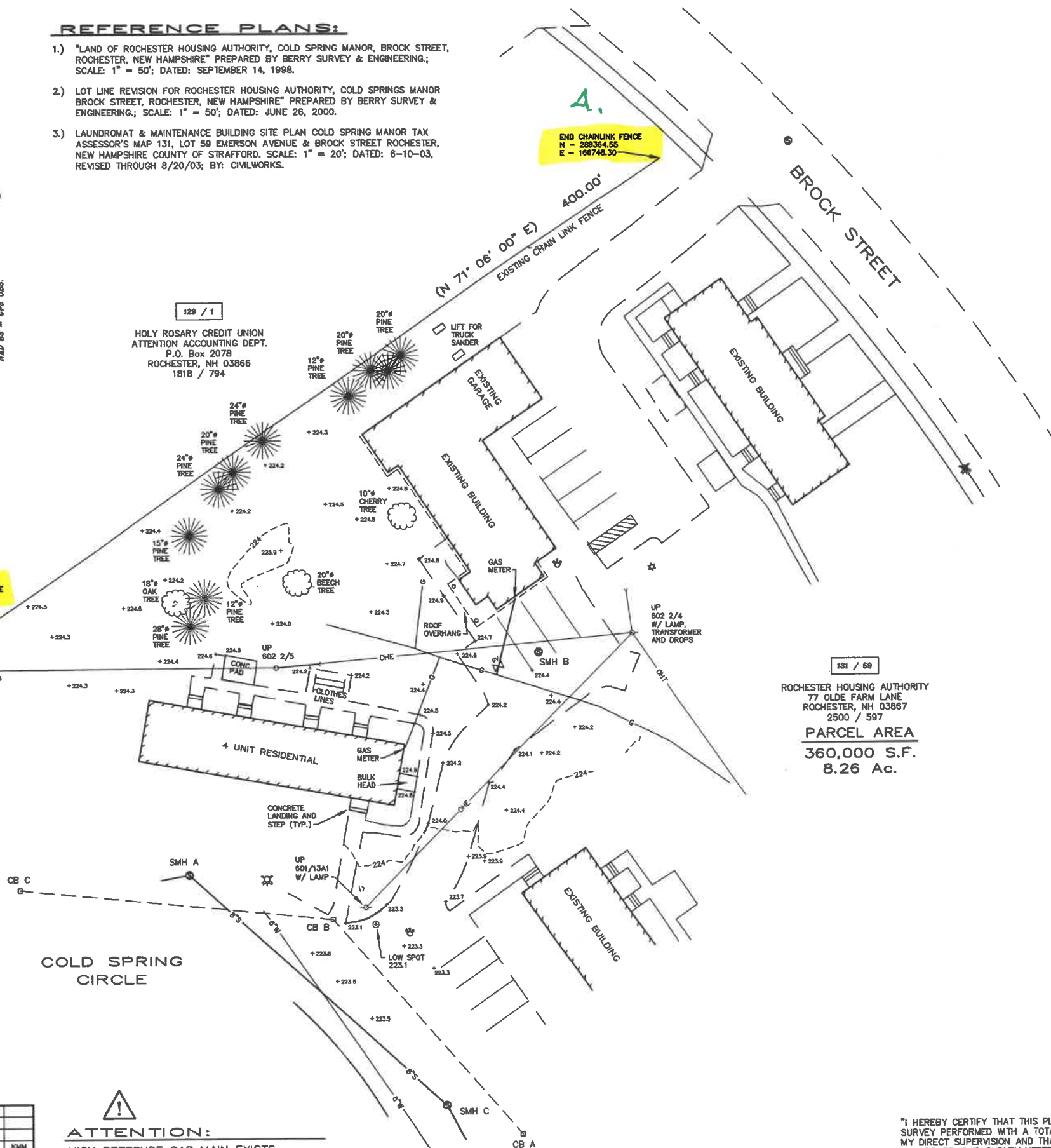
REFERENCE PLANS:

- 1.) "LAND OF ROCHESTER HOUSING AUTHORITY, COLD SPRING MANOR, BROCK STREET, ROCHESTER, NEW HAMPSHIRE" PREPARED BY BERRY SURVEY & ENGINEERING; SCALE: 1" = 50'; DATED: SEPTEMBER 14, 1998.
- 2.) LOT LINE REVISION FOR ROCHESTER HOUSING AUTHORITY, COLD SPRING MANOR BROCK STREET, ROCHESTER, NEW HAMPSHIRE" PREPARED BY BERRY SURVEY & ENGINEERING; SCALE: 1" = 50'; DATED: JUNE 26, 2000.
- 3.) LAUNDROMAT & MAINTENANCE BUILDING SITE PLAN COLD SPRING MANOR TAX ASSESSOR'S MAP 131, LOT 59 EMERSON AVENUE & BROCK STREET ROCHESTER, NEW HAMPSHIRE COUNTY OF STRAFFORD. SCALE: 1" = 20'; DATED: 6-10-03, REVISED THROUGH 8/20/03; BY: CIVILWORKS.



END CHAINLINK FENCE
N - 289192.40
E - 1166465.99

END CHAINLINK FENCE
N - 289364.55
E - 168748.30



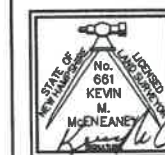
NOTES:

- 1.) OWNER OF RECORD: ROCHESTER HOUSING AUTHORITY
77 OLDE FARM LANE
ROCHESTER, NEW HAMPSHIRE 03867
S.C.R.D. VOLUME 2500, PAGE 597
- 2.) 131 / 69 - DENOTES TAX MAP AND PARCEL NUMBER.
- 3.) PARCEL AREA = 360,000 S.F. / 8.26 Ac.
- 4.) THE INTENT OF THIS PLAN IS TO DEPICT EXISTING SITE CONDITIONS IN THE AREA SHOWN AS OF AUGUST 10, 2020.
- 5.) ZONING DISTRICT: R-2, X-1MILE OVERLAY
DIMENSIONAL REQUIREMENTS:
MINIMUM LOT AREA = 6,000 S.F.
MINIMUM FRONTAGE = 60 FEET
BUILDING SETBACK REQUIREMENTS:
FRONT SETBACK = 10 FEET
SIDE SETBACK = 8 FEET
REAR SETBACK = 20 FEET
MAXIMUM BUILDING FOOTPRINT = 30 PERCENT
MAXIMUM LOT COVERAGE = 60 PERCENT
MAXIMUM BUILDING HEIGHT = 35 FEET MAXIMUM
- 6.) THE SUBJECT PARCEL IS LOCATED OUTSIDE OF THE 0.2 PERCENT ANNUAL CHANCE FLOODPLAIN AS SHOWN ON FLOOD INSURANCE RATE MAP COMMUNITY NUMBER 330150; PANEL 0211 SUFFIX D; MAP NUMBER 33017C0211D; EFFECTIVE DATE MAY 17, 2005.
- 7.) BASIS OF BEARING IS NH STATE PLANE (NAD83) BASED ON GPS OBSERVATION DATED AUGUST 10, 2020.
VERTICAL DATUM IS NH STATE PLANE (NAVD88) BASED ON GPS OBSERVATION DATED AUGUST 10, 2020.
- 8.) THE IMPROVEMENTS AND UTILITIES SHOWN ARE FROM OBSERVATIONS MADE IN THE FIELD OR REFERENCE PLANS. LOCATIONS OF UNDERGROUND UTILITIES NOT MARKED ON THE SURFACE WERE NOT LOCATED. ALL VISIBLE UTILITIES ARE SHOWN.
- 9.) ALL EXISTING UTILITY LOCATIONS ARE APPROXIMATE AS SHOWN. THE CONTRACTOR SHALL VERIFY THEIR EXACT LOCATIONS WITH THE RESPECTIVE UTILITY OWNERS PRIOR TO ANY WORK BEING PERFORMED. CALL DIGSAFE AT 1-888-344-7233.
- 10.) GAS LINES SHOWN ARE AS TAKEN FROM REFERENCE PLAN No. 3.

ROCHESTER HOUSING AUTHORITY
77 OLDE FARM LANE
ROCHESTER, NH 03867
2500 / 597
PARCEL AREA
360,000 S.F.
8.26 Ac.

LIMITED EXISTING CONDITIONS SKETCH
PREPARED FOR
ROCHESTER HOUSING AUTHORITY
TAX MAP 131, LOT No. 59
EMERSON AVENUE & BROCK STREET
CITY of ROCHESTER
COUNTY of STRAFFORD
STATE of NEW HAMPSHIRE

DRAWN BY: R/M FILE: 1432\DWGS\20-1432
SCALE: 1" = 20' DATE: AUGUST 11, 2020



McNeaney
Survey
Associates
of NEW ENGLAND

P.O. Box 681 - 24 CHESTNUT STREET
DOVER, NH 03820 (603) 742-0911

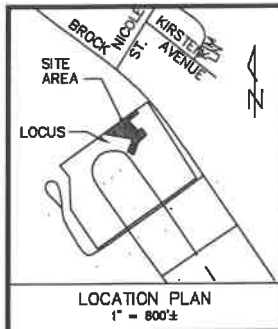
SURVEYING - PLANNING - CONSULTING

"I HEREBY CERTIFY THAT THIS PLAN IS BASED ON AN ACTUAL GROUND SURVEY PERFORMED WITH A TOTAL STATION, BY ME OR THOSE UNDER MY DIRECT SUPERVISION AND THAT, TO THE BEST OF MY KNOWLEDGE AND BELIEF, SAID SURVEY MEETS OR EXCEEDS THE MINIMUM PRECISION REQUIREMENTS FOR SURVEY CLASSIFICATION "U" AS SET FORTH IN TABLE 500.1 OF THE NEW HAMPSHIRE CODE OF ADMINISTRATIVE RULES OF THE BOARD OF LICENSURE FOR LAND SURVEYORS."

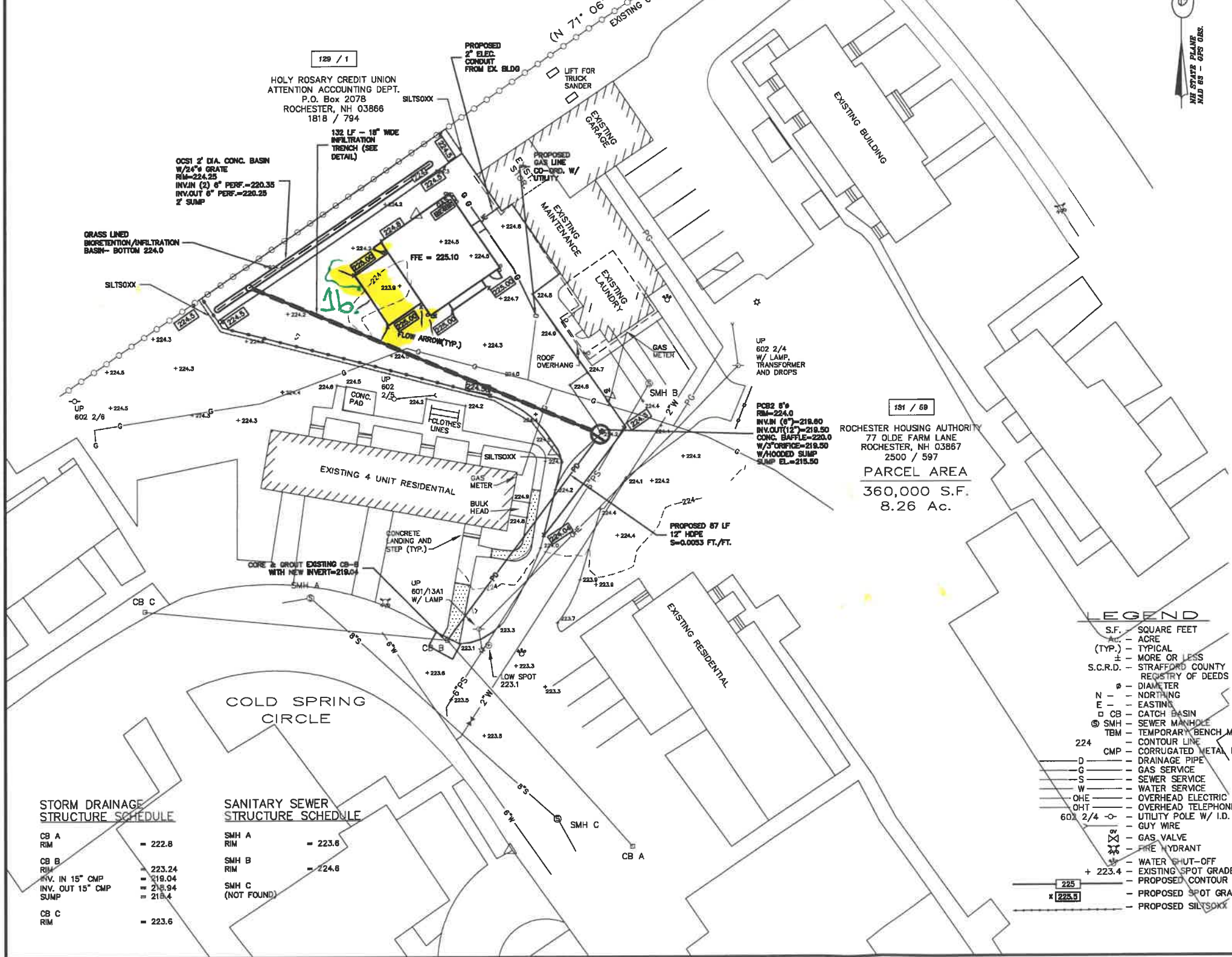
ATTENTION:

HIGH PRESSURE GAS MAIN EXISTS
WITHIN THE PROJECT LIMITS; PRIOR TO
ANY EARTH MOVING ACTIVITY CONTACT
DIGSAFE AT 1-888-344-7233 TO
VERIFY LOCATION.

1	7/13/21	ADD NAD83 COORDINATES	K.F	KMM
NO.	DATE	DESCRIPTION	BY	CHK
20-1432	EXIST. COND.	20-08	68-68	
PROJECT NO	TYPE	FIELDBOOK & PAGES		



LOCATION PLAN
1" = 800'



- GRADING NOTES:**
- ALL ROAD (INCLUDING PARKING LOT AND DRAINAGE) WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARDS FOR CONSTRUCTION OF THE CITY OF ROCHESTER, N.H. AND "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, STATE OF NEW HAMPSHIRE, DEPARTMENT OF TRANSPORTATION", LATEST EDITION. THE MORE STRINGENT SPECIFICATION SHALL APPLY.
 - CONTRACTOR SHALL RETAIN A GEOTECHNICAL ENGINEERING CONSULTANT APPROVED BY THE OWNER, TO CONDUCT COMPACTION TESTING AND FILL GRADATION MONITORING PER THE ABOVE REFERENCED "STANDARD SPECIFICATIONS".
 - SEE EROSION CONTROL NOTES & DETAIL SHEET FOR TEMPORARY AND PERMANENT EROSION CONTROL MEASURES.
 - ALL DRAINAGE PIPES SHALL BE HDPE OR APPROVED EQUAL UNLESS OTHERWISE NOTED.
 - ALL DISTURBED AREAS NOT OTHERWISE CALLED FOR SURFACE TREATMENT SHALL RECEIVE 6" OF HIGH QUALITY LOAM AND SHALL BE SEED WITH GRASS.
 - ALL SITEWORK CONSTRUCTION SHALL BE ADVANCED USING "BEST MANAGEMENT PRACTICES" SANCTIONED BY THE USDA SCS AND NHDES.
 - CONTRACTOR SHALL PROVIDE A FINISH GRADED SURFACE FREE OF LOW SPOTS AND PONDING AREAS. CRITICAL AREAS INCLUDE BUILDING ENTRANCE AND UNDER RAISED STRUCTURES.
 - DENSITY REQUIREMENTS:

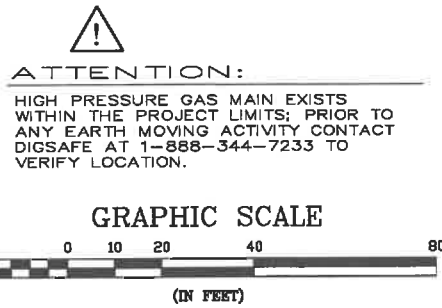
LOCATION	MINIMUM DENSITY
BELOW PAVED OR CONCRETE AREAS	95%
TRENCH BEDDING MATERIAL AND SAND BLANKET BACKFILL	95%
BELOW LOAM AND SEED AREA	90%

*ALL PERCENTAGES SHALL BE OF THE MAXIMUM DRY DENSITY AT THE OPTIMUM MOISTURE CONTENT AS DETERMINED AND CONTROLLED IN ACCORDANCE WITH AASHTO STANDARD 180, METHOD C. FIELD DENSITY TESTS SHALL BE MADE IN ACCORDANCE WITH AASHTO STANDARD T-191, T-204, OR T-238 AND T-239.
 - SEE GENERAL EROSION CONTROL NOTES ON DETAIL SHEET.
 - PROVIDE INLET PROTECTION BARRIERS AROUND ALL EXISTING AND PROPOSED STORM DRAINAGE INLETS WITHIN THE WORK LIMITS AND AS SHOWN ON PLAN. MAINTAIN FOR THE DURATION OF THE PROJECT UNTIL PAVEMENT HAS BEEN INSTALLED AND UPSTREAM AREAS HAVE BEEN STABILIZED.
 - INSPECT SILT BARRIERS AFTER EACH RAIN STORM OF 1/4 INCH OR GREATER. REPAIR/MODIFY PROTECTION AS NECESSARY TO MAXIMIZE EFFICIENCY FILTER. REPLACE ALL FILTERS WHEN SEDIMENT IS 1/3 THE STRUCTURE HEIGHT.
 - LIMIT TREE CLEARING TO ONLY THE EXTENT NECESSARY FOR CONSTRUCTION.



181 / 69
ROCHESTER HOUSING AUTHORITY
77 OLDE FARM LANE
ROCHESTER, NH 03867
2500 / 597
PARCEL AREA
360,000 S.F.
8.26 Ac.

- LEGEND**
- S.F. - SQUARE FEET
 - AC. - ACRE
 - (TYP.) - TYPICAL
 - ± - MORE OR LESS
 - S.C.R.D. - STRAFFORD COUNTY REGISTRY OF DEEDS
 - Ø - DIAMETER
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 - CMP - CORRUGATED METAL PIPE
 - D - DRAINAGE PIPE
 - G - GAS SERVICE
 - S - SEWER SERVICE
 - W - WATER SERVICE
 - OHE - OVERHEAD ELECTRIC SERVICE
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 - 602 2/4 - UTILITY POLE W/ I.D. NUMBERS
 - Ø - GUY WIRE
 - Ø - GAS VALVE
 - Ø - FIRE HYDRANT
 - Ø - WATER SHUT-OFF
 - Ø - EXISTING SPOT GRADE
 - Ø - PROPOSED CONTOUR
 - Ø - PROPOSED SPOT GRADE
 - Ø - PROPOSED SILT FENCE



STORM DRAINAGE STRUCTURE SCHEDULE		SANITARY SEWER STRUCTURE SCHEDULE	
CB A	RIM = 222.8	SMH A	RIM = 223.8
CB B	RIM = 223.24	SMH B	RIM = 224.8
INV. IN 15" CMP	= 218.04	SMH C	(NOT FOUND)
INV. OUT 15" CMP	= 218.94		
SUMP	= 218.4		
CB C	RIM = 223.6		

NOT FOR CONSTRUCTION FOR PERMIT USE ONLY

DATE	9/14/20	5	REVISED PER TRG COMMENTS	5/14/21	3/18/21	3/18/21	3/18/21	3/18/21	10/8/20	DATE
SCALE: 1"=20'				SMH	SMH	SMH	SMH	SMH	SMH	
DRAWN BY: SRD		4								
DESIGN BY: D.L.		3								
APPROVED BY: SMH		2								
PROJECT NO: 1784		1								
FILE: 1784-SITE.DWG		NO.								

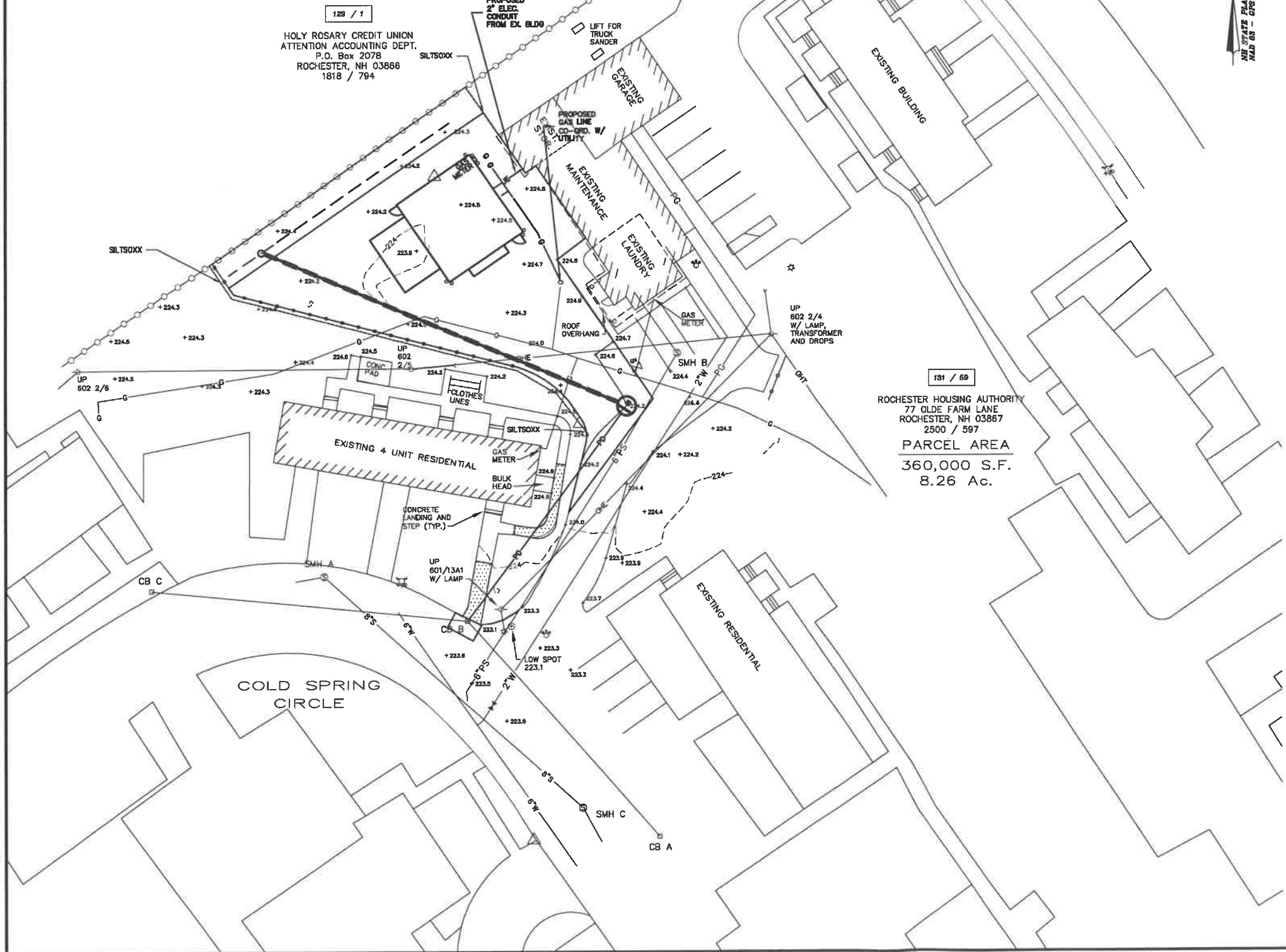
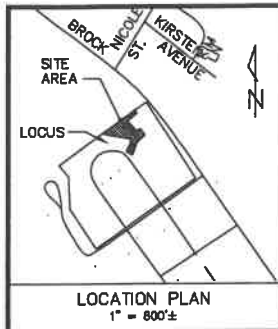
REVISION

HOUSING AUTHORITY OF THE CITY OF ROCHESTER
77 OLDE FARM LANE
ROCHESTER, NH 03867

UTILITY BUILDING
TAX MAP 129 & 131, LOT 59
ROCHESTER, NH

5

CIVILWORKS NEW ENGLAND
ONE EMMETT RD Box 1186
Dover, NH 03821
603.749.0443



- UTILITY NOTES:**
1. THE BEST AVAILABLE INFORMATION WAS USED TO DETERMINE THE LOCATION AND SIZE OF EXISTING UTILITIES. THE LOCATION IS NOT GUARANTEED BY THE OWNER OR THE ENGINEER. THE EXACT SIZE AND LOCATION OF UTILITIES SHALL BE CONFIRMED IN THE FIELD BY THE CONTRACTOR PRIOR TO COMMENCING WORK. IT IS ALSO THE CONTRACTOR'S RESPONSIBILITY TO ANTICIPATE CONFLICTS AND REPAIR EXISTING UTILITIES AS NECESSARY TO COMPLETE THE WORK AT NO ADDITIONAL COST TO THE OWNER.
 2. ALL EXISTING UTILITY LOCATIONS ARE APPROXIMATE AS SHOWN. THE CONTRACTOR SHALL VERIFY THEIR EXACT LOCATIONS WITH THE RESPECTIVE UTILITY OWNERS PRIOR TO WORK BEING PERFORMED. CALL DIGSAFE AT 1-888-388-7233 OR "811".
 3. ALL PROPOSED UTILITY SERVICES SHALL BE UNDERGROUND WITHIN THE SITE.
 4. UNDERGROUND ELECTRIC, TELEPHONE, AND CABLE TV CONDUITS SHALL BE INSTALLED IN ACCORDANCE WITH/PER EVERSOURCE, VERIZON, COMCAST, AND UNTIL STANDARDS.
 5. PROPOSED INSTALLATION OF UNDERGROUND CONDUITS FOR TELEPHONE, ELECTRIC AND GAS SERVICE SHALL BE COORDINATED WITH THE RESPECTIVE CONTACTS AS FOLLOWS:
ELECTRIC: EVERSOURCE 1.800.362.7784
CABLE: COMCAST 603.334.3615
GAS: UNTIL 866.933.3821
 6. SEE GRADING, DRAINAGE AND EROSION CONTROL PLAN FOR PROPOSED GRADING AND EROSION CONTROL MEASURES.
 7. ALL UNDERGROUND CONDUITS SHALL HAVE NYLON PULL ROPES TO FACILITATE PULLING CABLES.
 8. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO APPLICABLE CITY AND STATE CODES.

**STORM DRAINAGE
STRUCTURE SCHEDULE**

CB A RIM	= 222.8
CB B RIM	= 223.24
INV. IN 15" CMP	= 219.04
INV. OUT 15" CMP	= 218.94
SUMP	= 218.4
CB C RIM	= 223.6

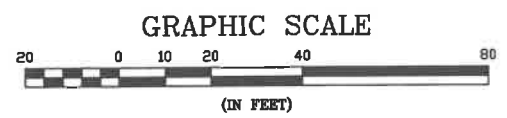
**SANITARY SEWER
STRUCTURE SCHEDULE**

SMH A RIM	= 223.6
SMH B RIM	= 224.6
SMH C (NOT FOUND)	

LEGEND

- S.F. - SQUARE FEET
- Ac. - ACRE
- (TYP.) - TYPICAL
- ± - MORE OR LESS
- S.C.R.D. - STRAFFORD COUNTY
REGISTRY OF DEEDS
- Ø - DIAMETER
- N - NORTHING
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- D - CORRUGATED METAL PIPE
- G - DRAINAGE PIPE
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- W - WATER SERVICE
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- OHT - OVERHEAD TELEPHONE SERVICE
- 602 2/4 - UTILITY POLE W/ I.D. NUMBERS
- Y - GUY WIRE
- ⊗ - GAS VALVE
- ⊕ - FIRE HYDRANT
- ⊕ - WATER SHUT-OFF
- + 223.4 - EXISTING SPOT GRADE
- 223.5 - PROPOSED CONTOUR
- 223.5 - PROPOSED SPOT GRADE
- 223.5 - PROPOSED SILT/SOXX

ATTENTION:
HIGH PRESSURE GAS MAIN EXISTS
WITHIN THE PROJECT LIMITS; PRIOR TO
ANY EARTH MOVING ACTIVITY CONTACT
DIGSAFE AT 1-888-344-7233 TO
VERIFY LOCATION.



NOT FOR CONSTRUCTION FOR PERMIT USE ONLY		CIVILWORKS NEW ENGLAND 181 West Road, P.O. Box 1166 Dover, New Hampshire 03821 903.748.0443	
DATE: 9/14/20	6	REVISION	DATE
SCALE: 1"=20'	5	REVISED PER TRG COMMENTS	9/18/21
DRAWN BY: SRD	4	REVISED NOTES	5/14/21
DESIGN BY: D.L.	3	ADDED UTILITIES & PAVEMENT AREA	3/19/21
APPROVED BY: J.H.	2	ADDED INFILTRATION & GARAGE	3/18/21
PROJECT NO: 1764	1	REVISED FENCE ENDPOST TO STEEL	3/8/21
FILE: 1764-STEDING NO.			10/8/20
UTILITY PLAN		HOUSING AUTHORITY OF THE CITY OF ROCHESTER 77 OLDE FARM LANE ROCHESTER, NH 03867	
6		TAX MAP 129 & 131, LOT 59 ROCHESTER, NH	

DESCRIPTION

THE INTENT OF THIS PLAN IS TO SHOW SITE IMPROVEMENTS ASSOCIATED WITH CONSTRUCTION OF A PAVED UTILITY STORAGE AREA, UTILITY BUILDING, AND SALT STORAGE SHED.

PROJECT NAME AND LOCATION

HOUSING AUTHORITY OF THE CITY OF ROCHESTER
COLD SPRING MANOR
141 BROOK STREET
ROCHESTER, NH

LATITUDE N43.292 DEGREES NORTH
LONGITUDE W70.961 DEGREES WEST

DISTURBED AREA

8,000 SQ. FT.

SEQUENCE OF MAJOR ACTIVITIES

1. PLACE TEMPORARY EROSION AND SEDIMENT CONTROL BMP'S PRIOR TO EARTH MOVING ACTIVITIES.
2. ALL EROSION CONTROL AND PERIMETER CONTROLS SHALL BE INSTALLED PRIOR TO COMMENCING EARTH MOVING OPERATIONS.
3. SELECTIVE DEMOLITION.
4. REGRADE SITE TO SUBGRADE
5. INSTALL DRAINAGE STRUCTURES AND CONTROLS
6. PLACE GRAVELS AND FINE GRADE
7. STABILIZE, ROADWAYS & PARKING LOTS WITHIN 72 HOURS OF ACHIEVING FINISHED GRADE.
8. ALL CUT AND FILL SLOPES SHALL BE LOAMED AND SEEDED (AS APPLICABLE) WITHIN 72 HOURS OF ACHIEVING FINISH GRADE.
9. ALL EROSION CONTROL MEASURES SHALL BE INSPECTED AT LEAST WEEKLY AND AFTER EVERY 1/4" OF RAINFALL.
10. IN ALL CASES THE SMALLEST PRACTICAL AREA SHALL BE DISTURBED DURING CONSTRUCTION. ALL DISTURBED AREAS SHALL BE STABILIZED WITHIN 14 DAYS OF INITIAL DISTURBANCE.
11. WHEN ALL SITE WORK IS COMPLETE AND ALL DISTURBED AREAS ARE STABILIZED REMOVE ALL TEMPORARY EROSION CONTROL MEASURES AND FILE THE EPA - N.O.T. IF APPLICABLE.

DEFINITIONS

AN AREA SHALL BE CONSIDERED STABLE IF ONE OF THE FOLLOWING HAS OCCURRED.

1. BASE COURSE GRAVELS HAVE BEEN INSTALLED IN AREAS TO BE PAVED
2. A MINIMUM OF 85% VEGETATIVE GROWTH HAS BEEN ESTABLISHED
3. A MINIMUM OF 3" OF NON-EROSIVE MATERIAL SUCH AS STONE OR RIP-RAP HAS BEEN INSTALLED; OR
4. EROSION CONTROL BLANKETS HAVE BEEN PROPERLY INSTALLED

INSTALLATION, MAINTENANCE AND INSPECTION PROCEDURES OF EROSION AND SEDIMENT CONTROLS

A. GENERAL

- THESE ARE THE GENERAL INSPECTION AND MAINTENANCE PRACTICES THAT WILL BE USED TO IMPLEMENT THE PLAN.
1. ALL DITCHES AND SWALES SHALL BE STABILIZED PRIOR TO DIRECTING RUNOFF TO THEM.
 2. ALL CONTROL MEASURES WILL BE INSPECTED AT LEAST ONCE EACH WEEK AND FOLLOWING ANY STORM EVENT OF 1/2 INCH OR GREATER.
 3. ALL MEASURES WILL BE MAINTAINED IN GOOD WORKING ORDER; IF A REPAIR IS NECESSARY, IT WILL BE INITIATED WITHIN 24 HOURS OF REPORT.
 4. BUILT UP SEDIMENT WILL BE REMOVED FROM SILT FENCE OR CHECK DAMS WHEN IT HAS REACHED ONE THIRD THE HEIGHT OF THE FENCE OR DAM.
 5. ALL DIVERSION DIKES WILL BE INSPECTED AND ANY BREACHES PROMPTLY REPAIRED.
 6. TEMPORARY SEEDING AND PLANTING WILL BE INSPECTED FOR BARE SPOTS, WASHOUTS, AND UNHEALTHY GROWTH.
 7. A MAINTENANCE INSPECTION REPORT WILL BE MADE AFTER EACH INSPECTION.
 8. A REPRESENTATIVE OF THE OWNER, WILL BE RESPONSIBLE FOR INSPECTIONS, MAINTENANCE AND REPAIR ACTIVITIES, AND FILLING OUT THE INSPECTION AND MAINTENANCE REPORT.
 9. ALL AREAS SHALL BE STABILIZED WITHIN 72 HOURS OF ACHIEVING FINISH GRADE.

B. FILTERS

1. Silt Fence
 - a. Synthetic filter fabric shall be a pervious sheet of propylene, nylon, polyester or ethylene yarn and shall be certified by the manufacturer or supplier as conforming to the following requirements:

Test	Requirements
Physical Property	
Filtering Efficiency	VTM-31
Tensile Strength at Break	VTM-52
200% Maximum Elongation*	30 lb./in. (min)
Standard Strength	30 lb./in. (min)
Flow Rate	VTM-51
Requirements reduced by 50 percent after six (6) months of installation.	0.3 gal/ft/min (min)

Synthetic filter fabric shall contain ultraviolet ray inhibitors and stabilizers to provide a minimum of six (6) months of expected usable construction life at a temperature range of 0 degrees F to 120 Degrees F.

- b. The height of a silt fence shall not exceed thirty-six (36) inches.
- c. The filter fabric shall be purchased on a continuous roll cut to the length of the barrier to avoid the use of joints. When joints are necessary, filter cloth shall be spliced together only at support post, with a minimum six (6) inch overlap, and securely sealed.
- d. Posts shall be spaced a maximum of ten (10) feet apart at the barrier location and driven securely into the ground (minimum of 12 inches). When extra strength fabric is used without the wire support fence, post spacing shall not exceed 6 feet.
- e. Posts for silt fences shall be 2-inch diameter wood with a minimum length of 5 feet.
- f. Wire fence reinforcement for silt fences using standard strength filter cloth shall be a minimum of 42 inches in height, a minimum of 14 gauge and shall have a maximum mesh spacing of 8 inches.
- g. A trench shall be excavated approximately four (4) inches wide and four (4) inches deep along the line of posts and upslope from the barrier.
- h. When standard strength filter fabric is used, a wire mesh support fence shall be fastened securely to the upslope side of the posts using heavy duty wire staples at least one (1) inch long, tie wires or hog rings. The wire shall extend no more than 36 inches above the original ground surfaces.
- i. The "standard strength" filter fabric shall be stapled or wired to the fence, and eight (8) inches of the fabric shall be extended into the trench. The fabric shall not extend more than 36 inches above the original ground surface. Filter fabric shall not be stapled to existing trees.
- j. When extra strength filter fabric and closer post spacing are used, the wire mesh support fence may be eliminated. In such a case, the filter fabric is stapled or wired directly to the posts with all other provisions of item (i) apply.
- k. The trench shall be backfilled and the soil compacted over the filter fabric.
- l. Silt fences shall be removed when they have served their useful purpose, but not before the upslope areas have been permanently stabilized.

2. Sequence of Installation
Sediment barriers shall be installed prior to any soil disturbance of the contributing drainage area above them.
3. Maintenance

- a. Check dams and silt fence barriers shall be inspected immediately after each rainfall and at least daily during prolonged rainfall. They shall be repaired if there are any signs of erosion or sedimentation below them. Any required repairs shall be made immediately. If there are signs of undercutting at the center or the edges, or impounding of large volumes of water behind them, sediment barriers shall be replaced with a temporary check dam.
- b. Should the fabric on a silt fence or filter barrier decompose or become ineffective prior to the end of the expected usable life and the barrier still is necessary, the fabric shall be replaced promptly.
- c. Sediment deposits should be removed after each storm event. They must be removed when deposits reach approximately one third (1/3) the height of the barrier.
- d. Any sediment deposits remaining in place after the silt fence or filter barrier is no longer required shall be dressed to conform with the existing grade, prepared and seeded.

C. MULCHING

1. Timing
In order for mulch to be effective, it must be in place prior to major storm events. There are two (2) types of standards which shall be used to assure this.
 - a. Apply mulch prior to any storm event. It will be necessary to closely monitor weather predictions, usually by contacting the National Weather Service in Concord, to have adequate warning of significant storms.
 - b. Required Mulching within a specified time period. The time period can range from 14 to 21 days of inactivity on a area, the length of time varying with site conditions. Professional judgement shall be used to evaluate the interaction of site conditions (soil erodibility, season of year, extent of disturbance, proximity to sensitive resources, etc.) and the potential impact of erosion on adjacent areas to choose an appropriate time restriction.
2. Application Rate
Mulch shall be applied at a rate of between 1.5 to 2 tons per acre, or 90 to 100 pounds per 1000 square feet.
3. Guidelines for Winter Mulch Application. When mulch is applied to provide protection over winter (past the growing season) it shall be at a rate of 6,000 pounds of hay or straw per acre. A tackifier may be added to the mulch.
4. Maintenance
All mulches must be inspected periodically, in particular after rainstorms, to check for rill erosion. If less than 90% of the soil surface is covered by mulch, additional mulch shall be immediately applied.
5. Excelsior Matting
Excelsior Matting shall be used in place of mulch on all slopes steeper than 3:1.
6. TEMPORARY GRASS COVER
 1. Seeded Preparation
Apply fertilizer at the rate of 600 pounds per acre of 10-10-10. Apply limestone (equivalent to 50 percent calcium plus magnesium oxide) at a rate of three (3) tons per acre.
 2. Seeding
 - a. Utilize annual rye grass at a rate of 40 lbs./acre.
 - b. Where the soil has been compacted by construction operations, loosen soil to a depth of two (2) inches before applying fertilizer, lime and seed.
 - c. Apply seed uniformly by hand, cyclone seeder, or hydroseeder (slurry including seed and fertilizer). Hydroseeding, which includes mulch, may be used on soil surface. Seeding rates must be increased 10% when hydroseeding.
 3. Maintenance
Temporary seedlings shall be periodically inspected. At a minimum, 85% of the soil surface should be covered by vegetation. If any evidence of erosion or sedimentation is apparent, repairs shall be made and other temporary measures used in the interim (mulch, filter barriers, check dams, etc.).

E. PERMANENT SEEDING

1. Bedding - stones larger than 1 1/2", trash, roots, and other debris interfere with seeding and future maintenance of the area should be removed. Where feasible, the soil should be tilled to a depth of 4" to prepare a seedbed and mix fertilizer into the soil.
2. Fertilizer - lime and fertilizer should be applied evenly over the area prior to or at the time of seeding and incorporated into the soil. Kinds and amounts of lime and fertilizer should be based on an evaluation of soil tests. When a soil test is not available, the following minimum amounts should be applied:

Agricultural Limestone @ 100 lbs. per 1,000 s.f.	10-20-20 fertilizer @ 12 lbs. per 1,000 s.f.
10-20-20 fertilizer @ 12 lbs. per 1,000 s.f.	
3. Seed Mixture (recommended)

Rate:	LBS. PER ACRE	LBS. PER 1,000 S.F.
Tall Fescue	20	0.45
Crested Red	20	0.45
Fescue	8	0.20
Birdsfoot Trefoil	48	1.10
4. Sodding - sodding is done where it is desirable to rapidly establish cover on a disturbed area. Sodding an area may be substituted for permanent seeding procedures anywhere on site. Bed preparation, fertilizing, and placement of sod shall be performed according to the S.C.S. Handbook.

Sodding is recommended for steep sloped areas, areas immediately adjacent to sensitive water courses, easily erodible soils (fine sand/silt) etc.
5. Provide a minimum of 4 inches (5 inches loose) of topsoil to all areas to be seeded.

F. STORM DRAIN INLET PROTECTION

1. Straw/Hay Bale Inlet Structure
 - a. Bales shall be either wire bound or string tied with the bindings oriented around the sides rather than over and under the bales.
 - b. Bales shall be placed lengthwise in a single row surrounding the inlet, with the ends of adjacent bales pressed together.
 - c. The filter barrier shall be entrenched and backfilled. A trench shall be excavated around the inlet the width of bale to a minimum depth of four (4) inches. After the bales are stacked, the excavated soil shall be backfilled and compacted against the filter barrier.
 - d. Each bale shall be securely anchored and held in place by at least two (2) stakes or rebars driven through the bale.
 - e. Loose straw/hay shall be wedged between bales to prevent water from entering between bales.
 - f. All structures should be inspected after every rainstorm and repairs made as necessary.
 - g. Sediment should be removed from the devices after the sediment has reached a maximum of one-third the depth of the trap.
 - h. Haybales should be removed and the area repaired as soon as the contributing drainage area to the inlet has been completely stabilized.

TIMING OF CONTROLS/MEASURES

As indicated in the sequence of Major Activities the silt fences shall be installed prior to commencing any clearing or grading of the site. Structural controls shall be installed concurrently with the applicable activity. Areas where construction activity temporarily ceases for more than twenty one (21) days will be stabilized with a temporary seed and mulch within fourteen (14) days of the last disturbance. Once construction activity ceases permanently in an area, silt fences and any earth/dikes will be removed once permanent measures are established. All areas shall be stabilized within 72 hours of achieving finish grade.

WASTE DISPOSAL

A. WASTE MATERIALS

All waste materials will be collected and stored in securely lidded receptacles. All trash and construction debris from the site will be disposed in dumpster. No construction waste materials will be buried on site. All personnel will be instructed regarding the correct procedure for waste disposal by the superintendent.

B. HAZARDOUS WASTE

All hazardous waste materials will be disposed of in the manner specified by local or state regulation or by the manufacturer. Site personnel will be instructed in these practices by the superintendent.

C. SANITARY WASTE

All sanitary waste will be collected from the portable units a minimum of once per week by a licensed sanitary waste management contractor.

SPILL PREVENTION

A. MATERIAL MANAGEMENT PRACTICES

The following are the material management practices that will be used to reduce the risk of spills or other accidental exposure of materials and substances during construction to stormwater runoff:

Good Housekeeping:

The following good housekeeping practices will be followed on site during the construction project:

- o An effort will be made to store only sufficient amounts of products to do the job.
- o All materials stored on site will be stored in a neat, orderly manner in their proper (original if possible) containers and, if possible, under a roof or other enclosure.
- o Manufacturer's recommendations for proper use and disposal will be followed.
- o The site superintendent will inspect daily to ensure proper use and disposal of materials.
- o Substances will not be mixed with one another unless recommended by the manufacturer.
- o Whenever possible all of a product will be used up before disposing of the container.

Hazardous Products:

The following practices will be used to reduce the risks associated with hazardous materials:

- o Products will be kept in their original containers unless they are not resalable.
- o Original labels and material safety data will be retained for important product information.
- o Surplus product that must be disposed of will be discarded according to the manufacturer's recommended methods of disposal.

B. PRODUCT SPECIFICATION PRACTICES

The following product specific practices will be followed on site:

Petroleum Products:

All on site vehicles will be monitored for leaks and receive regular preventive maintenance to reduce leakage. Petroleum products will be stored in tightly sealed containers which are clearly labeled. Any asphalt based substances used on site will be applied according to the manufacturer's recommendations.

Fertilizers:

Fertilizers used will be applied only in the minimum amounts directed by the specifications. Once applied fertilizer will be worked into the soil to limit exposure to stormwater. Storage will be in covered shed or enclosed trailer. The container will be partially used bags of fertilizer will be transferred to a sealable plastic bin to avoid

Paints:

All containers will be tightly sealed and stored when not required for use. Excess paint will not be discharged to the storm sewer system but will be disposed of properly according to manufacturer's instructions or state and local regulations.

Concrete Trucks:

Concrete trucks will discharge and wash out surplus concrete or drum wash water in a contained area on site.

C. SPILL CONTROL PRACTICES

In addition to good housekeeping and material management practices discussed in the previous section the following practices will be followed for spill prevention and cleanup:

- o Manufacturer's recommended methods for spill cleanup will be clearly posted and site personnel will be made aware of the procedures and the location of the information and cleanup supplies.
- o Materials and equipment necessary for spill cleanup will be kept in the material storage area on site. Equipment and materials will include but not be limited to brooms, dustpans, mops, rags, gloves, goggles, kitty litter, sand, sawdust and plastic or metal trash containers specifically for this purpose.
- o All spills will be cleaned up immediately after discovery.
- o The spill area will be kept well ventilated and personnel will wear appropriate protective clothing to prevent injury from contact with a hazardous substance.
- o Spills of toxic or hazardous material will be reported to the appropriate state or local government agency, regardless of the size.
- o The spill prevention plan will be adjusted to include measures to prevent this type of spill from recurring and how to cleanup the spill if it occurs. A description of the spill, its cause, and the cleanup measures will be included.
- o The site superintendent responsible for day-to-day site operations will be the spill prevention and cleanup coordinator.

The project proponent is required to manage construction to meet the requirements of AGR 3800 relative to controlling invasive species and controlling fugitive dust in accordance with ENV-A 1002.

AGR 3800 Prohibited Invasive Plant Species Rules

The rule, Agr 3800, states: "No person shall collect, transport, import, export, move, buy, sell, distribute, propagate or transplant any living and viable portion of any plant species, which includes all of their cultivars and varieties, listed in Table 3800.1, New Hampshire prohibited invasive species list". A complete copy of the rules can be accessed on the Internet at http://agriculture.nh.gov/topics/plants_insects.htm.

Env-A 1002 FUGITIVE DUST: Precautions to Prevent, Abate, and Control Fugitive Dust.

(a) Any person engaged in any activity within the state that emits fugitive dust, other than those listed in Env-A 1002.02(b), shall take precautions throughout the duration of the activity in order to prevent, abate, and control the emission of fugitive dust.

(b) Precautions required by (a), above, shall include but not be limited to the following:

- (1) The use of water or hydrophilic material on operations or surfaces, or both;
- (2) The application of asphalt, water or hydrophilic material, or tarps or other such covers to material stockpiles;
- (3) The use of hoods, fans, fabric filters, or other devices to enclose and vent areas where materials prone to producing fugitive dust are handled;
- (4) The use of containment methods for sandblasting or similar operations; and
- (5) The use of vacuums or other suction devices to collect airborne particulate matter.

MAINTENANCE OF STORMWATER MANAGEMENT FACILITIES

The project proponent is responsible for the maintenance of all stormwater facilities during construction and the property owner is responsible after construction is complete.

CATCH BASINS & STORMWATER TREATMENT STRUCTURES

1. Catch basins & Stormwater treatment structures should be inspected on a monthly basis and/or after a major rainfall event to assure that debris or sediments do not reduce the effectiveness of the system.

WINTER CONSTRUCTION NOTES

1. All proposed post-development vegetated areas which do not exhibit a minimum of 85% vegetative growth by October 15th, or which are disturbed after October 15th, shall be stabilized by seeding and installing erosion control blankets on slopes greater than 3:1, and seeding and placing 3 to 4 tons of mulch per acre, secured with anchored netting, elsewhere. The placement of erosion control blankets or mulch and netting shall not occur over accumulated snow or on frozen ground and shall be completed in advance of thaw or spring melt.
2. All slopes which do not exhibit a minimum of 85% vegetative growth by October 15th, or which are disturbed after October 15th shall be stabilized with stone or erosion control blankets.
3. After October 15th, incomplete road surfaces shall be protected with a minimum of 3-inches of crushed gravel per NHDOT Item 403.3, or if construction is to continue through the winter season be cleared of any accumulated snow after each storm event.

SALT STORAGE STRUCTURES:

- o SALT AND SAND/SALT MIXTURES SHOULD BE STORED ON PADS OF IMPERMEABLE ASPHALT. STORAGE AND LOADING AREAS SHALL HAVE AN IMPERMEABLE FLOOR CONSTRUCTED OF ASPHALT. THE AREA SHALL BE SLOPED AWAY TO PREVENT STORMWATER FROM ENTERING THE LOADING AREAS OR STRUCTURE.
- o CONCRETE WALLS SHALL BE TREATED TO PREVENT CONCRETE DETERIORATION (SPALLING).
- o STRUCTURE HARDWARE SHALL BE GALVANIZED AND CONCRETE BLOCK BUILDINGS SHALL BE WATERPROOFED INSIDE.
- o THE EXPOSED SALT AT THE OPEN END SHALL BE COVERED.
- o STORMWATER AND SNOWMELT RUNOFF SHALL BE PROPERLY CONTROLLED, BUILDING FLOORS AND STORAGE PADS SHALL BE SLOPED TO PREVENT PONDING AND ALLOW ANY WATER TO DRAIN AWAY FROM THE STORAGE PILES.

ON-SITE MANAGEMENT: DELIVERY/HANDLING/LOADING

- o ALL SAND AND SAND/SALT MIXTURES TEMPORARILY OUT IN THE OPEN SHALL BE COVERED TO PREVENT SALT FROM BEING WASHED OR BLOWN FROM THE PILE.
- o ALL SURPLUS MATERIALS SHALL BE REMOVED FROM THE SITE WHEN WINTER ACTIVITY IS FINISHED.
- o WORKING AREAS SHALL BE SLOPED TO ALLOW SNOW MELT AND STORMWATER TO DRAIN AWAY FROM THE AREA.
- o STORAGE AND DISTRIBUTION SHOULD ONLY BE CONDUCTED DURING THE FALL/WINTER SEASON.
- o SPREADERS SHALL NOT BE OVERLOADED SUCH THAT MATERIAL SPILLS OFF THE VEHICLE. A PLAN FOR LOADING OPERATIONS TO PREVENT OVERFILLING VEHICLES SHALL NOT BE OVERLOOKED AND ELIMINATING MATERIAL SPILLAGE DURING TRANSPORTATION.
- o SALT SPILLED AT THE STORAGE YARD AND LOADING AREAS SHOULD BE COLLECTED AND RETURNED TO THE STORAGE PILE.
- o ANNUAL INSPECTION AND REPAIRS SHOULD BE CARRIED OUT PRIOR TO THE START OF EACH SEASON. ONGOING INSPECTION OF STORAGE STRUCTURES, WORK AREAS, AND DECING LIQUID STORAGE TANKS SHOULD BE CARRIED OUT DURING THE SEASON.
- o SOLID BAGGED MATERIALS SHOULD BE STORED SECURELY, INDOORS IF POSSIBLE.
- o SPREADERS SHALL BE WASHED AT A LOCATION WHERE THE WASH WATER IS PROPERLY MANAGED.

DIG-SAFE
1-888-344-7233



NOTE:
CONTRACTOR IS REQUIRED TO CALL DIGSAFE AND COORDINATE LOCATIONS OF EXISTING UTILITY SERVICES A MINIMUM OF 72 HOURS PRIOR TO STARTING ANY WORK ON SITE.

NOT FOR CONSTRUCTION FOR PERMIT USE ONLY

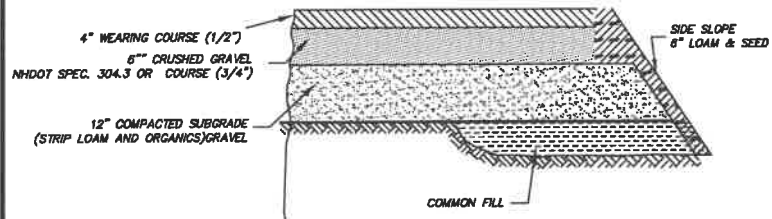
CIVILWORKS NEW ENGLAND
181 Wakefield Road, P.O. Box 1168
Dover, New Hampshire 03821
803.749.0443

DATE	SCALE	DRAWN BY	DESIGN BY	APPROVED BY	PROJECT NO.	FILE	NO.	REVISION	DATE
9/14/20	1"=20'	SRD	DL	DL	1764	NO.1	NO.	NO.	NO.
2	REV. PER P.B. CONDITIONS OF APP.	SH	SH	SH	5/14/21	DATE			



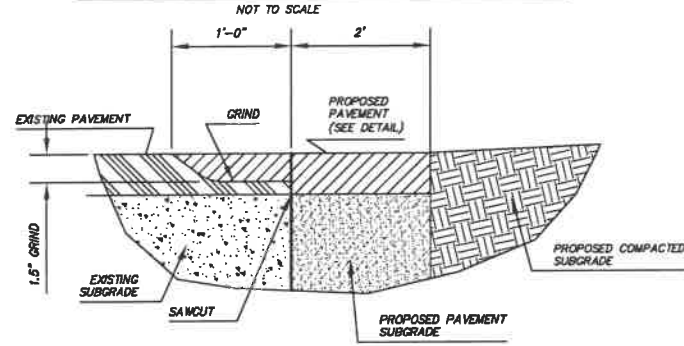
HOUSING AUTHORITY OF
THE CITY OF ROCHESTER
77 OLDE FARM LANE
ROCHESTER, NH 03867

EROSION CONTROL NOTES
UTILITY BUILDING
TAX MAP 131, LOT 59
ROCHESTER, NH
7



- NOTE:
1. SEE SITE PLAN FOR PAVEMENT WIDTH AND LOCATION.
 2. SEE GRADING, DRAINAGE AND EROSION CONTROL PLAN FOR PAVEMENT SLOPE AND CROSS-SLOPE.

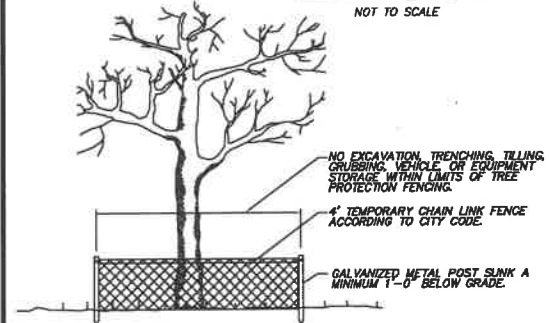
TYPICAL ON SITE PAVEMENT SECTION



NOTE: APPLY TACK COAT ON HORIZONTAL AND VERTICAL EDGES

SAWCUT GRINDING

NOT TO SCALE

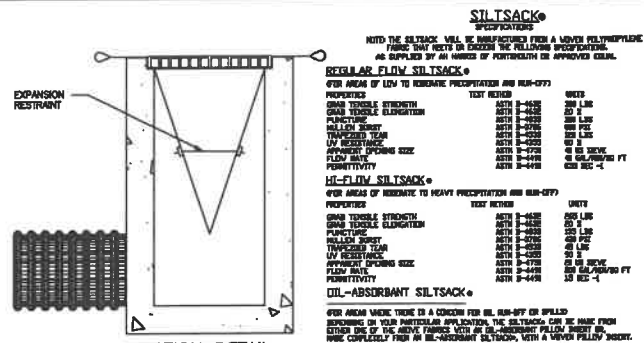


4\"/>

- FOR ADDED PROTECTION
- PROVIDE 4\"/>
 - MAKE CLEAN CUTS ON ROOTS EXPOSED BY GRADING AND BACKFILL IMMEDIATELY.
 - PROVIDE TEMPORARY IRRIGATION WHERE PRACTICAL AND FEASIBLE.

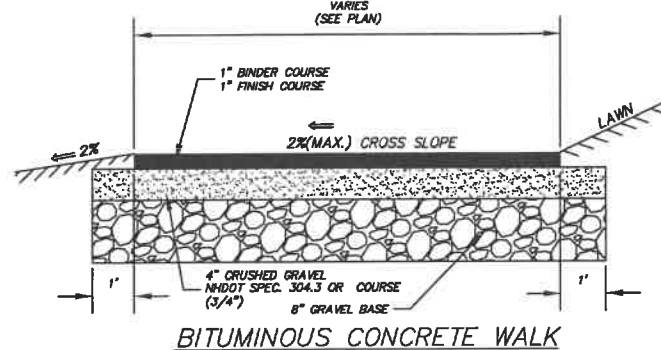
TREE PROTECTION

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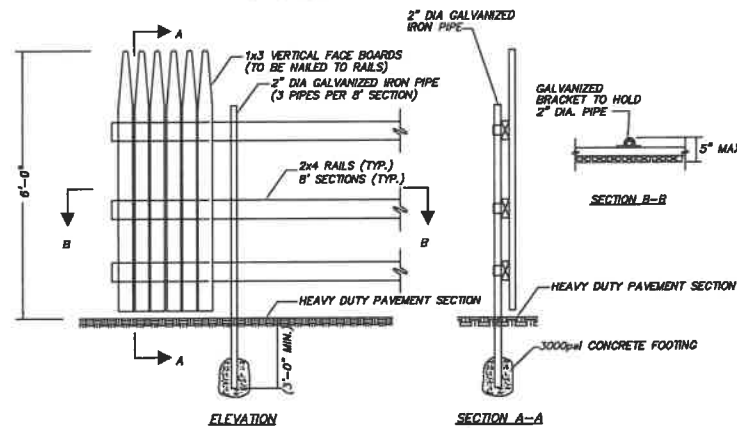
INSTALLATION DETAIL
DETAIL OF INLET SEDIMENT CONTROL DEVICE

NOT TO SCALE



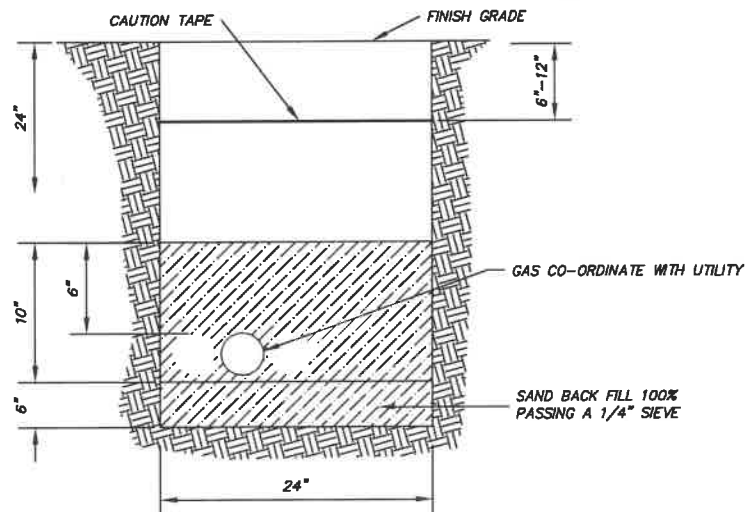
BITUMINOUS CONCRETE WALK

NOT TO SCALE



STOCKADE FENCE / ENCLOSURE DETAIL

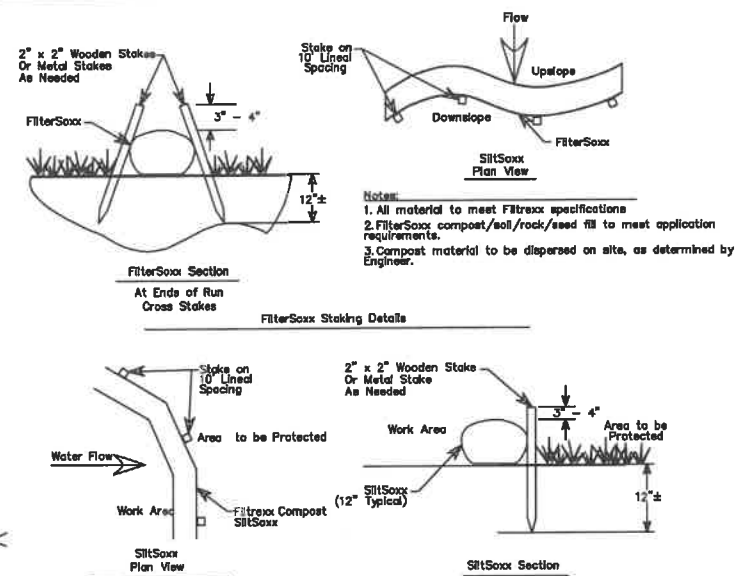
NOT TO SCALE



1. FOR COMPLETE SPECIFICATIONS SEE UNTIL CONSTRUCTION SPECIFICATIONS.
2. CONTRACTOR SHALL VERIFY THE NUMBER & SIZE OF CONDUIT WITH THE APPROPRIATE UTILITIES.

UTILITY TRENCH (GAS)

NOT TO SCALE



- Notes:
1. All material to meet Filtrax specifications
 2. SiltSoxx compost/soil/rock/seed fill to meet application requirements.
 3. SiltSoxx depicted is for minimum slopes. Greater slopes may require larger socks per the Engineer.
 4. Compost material to be dispersed on site, as determined by Engineer.

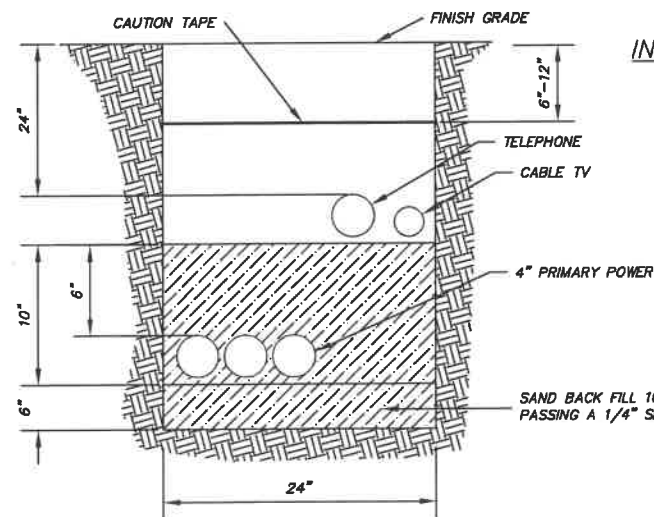
SiltSoxx Details

NOT TO SCALE

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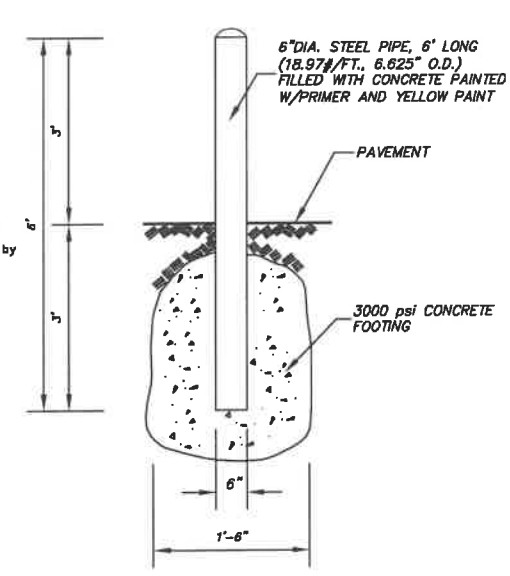
NOTE:
CONTRACTOR IS REQUIRED TO CALL DIGSAFE AND COORDINATE LOCATIONS OF EXISTING UTILITY SERVICES A MINIMUM OF 72 HOURS PRIOR TO STARTING ANY WORK ON SITE.



1. TELEPHONE CONDUIT SHALL BE 3\"/>
- 2. LEAVE PULL ROPE IN ALL CONDUITS FOR CABLE INSTALLATION.
- 3. FOR COMPLETE SPECIFICATIONS SEE \"PUBLIC SERVICE COMPANY OF NEW HAMPSHIRE CONSTRUCTION SPECIFICATIONS FOR UNDERGROUND CONDUIT SYSTEMS\".
- 4. CONTRACTOR SHOULD VERIFY THE NUMBER & SIZE OF CONDUIT WITH THE APPROPRIATE UTILITIES.

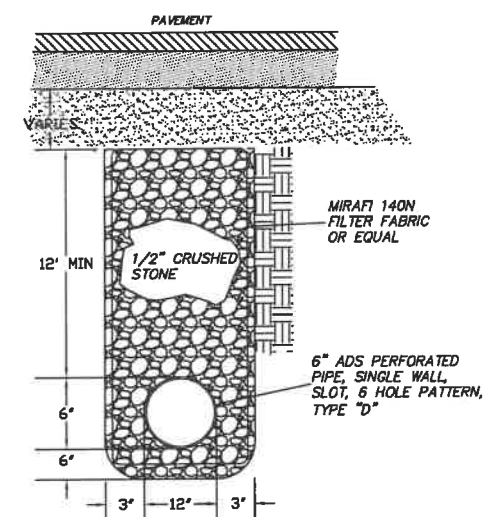
UTILITY TRENCH

NOT TO SCALE



BOLLARD DETAIL

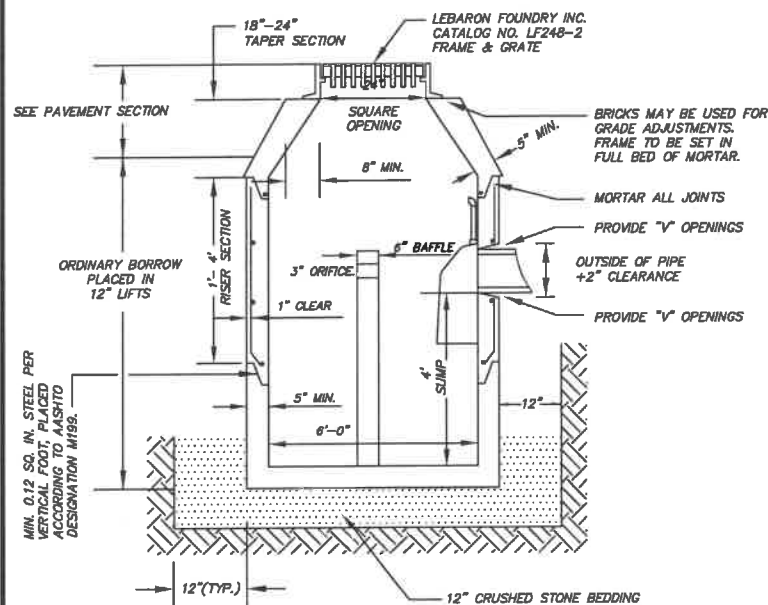
NOT TO SCALE



INFILTRATION TRENCH DETAIL

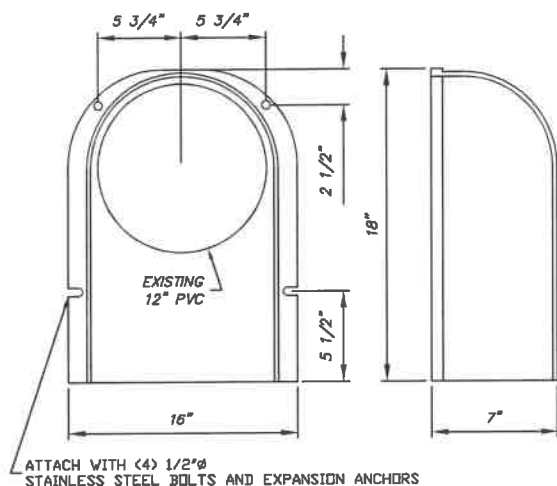
N.T.S.

NOT FOR CONSTRUCTION FOR PERMIT USE ONLY				CIVILWORKS NEW ENGLAND			
DATE: 9/14/20	SCALE: NA	DRAWN BY: SRD	DESIGN BY: D.L.	REV. PER P.B. CONDITIONS OF APP.	9/18/21	3/19/21	10/8/20
APPROVED BY: J.H.	PROJECT NO: 1764	1	2	ADDED BOLLARD & TRENCH DETAIL	3/19/21	3/19/21	10/8/20
FILE: SITE/DWG	NO.	NO.	NO.	REVISION	DATE	DATE	DATE
				HOUSING AUTHORITY OF THE CITY OF ROCHESTER 77 OLDE FARM LANE ROCHESTER, NH 03867			
UTILITY BUILDING TAX MAP 131, LOT 59 ROCHESTER, NH				8			



NOTE
1. PROVIDE "SHOUT" OIL DEBRIS HOOD AVAILABLE FROM BEST MANAGEMENT PRODUCTS, INC. OR APPROVED EQUIVALENT IN ALL NEW CATCH BASINS.

CONCRETE CATCH BASIN
NOT TO SCALE

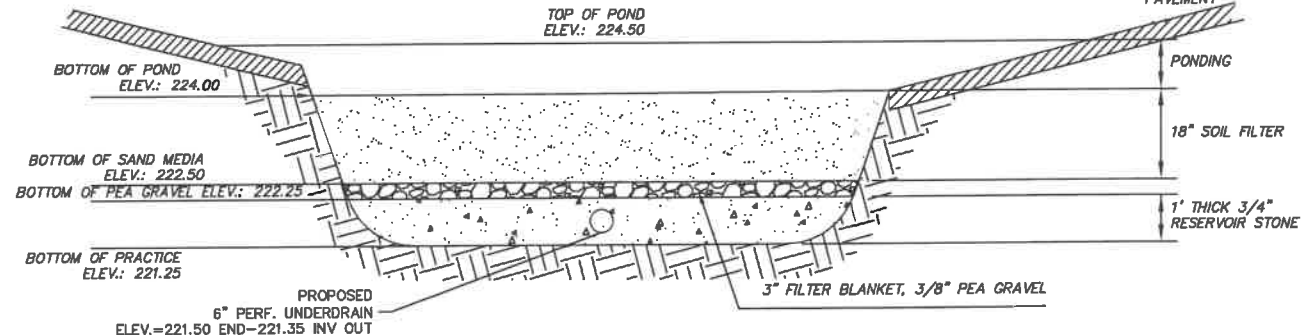


CATCH BASIN HOOD DETAIL
(NOT TO SCALE)

CATCH BASIN DETAIL
NOT TO SCALE

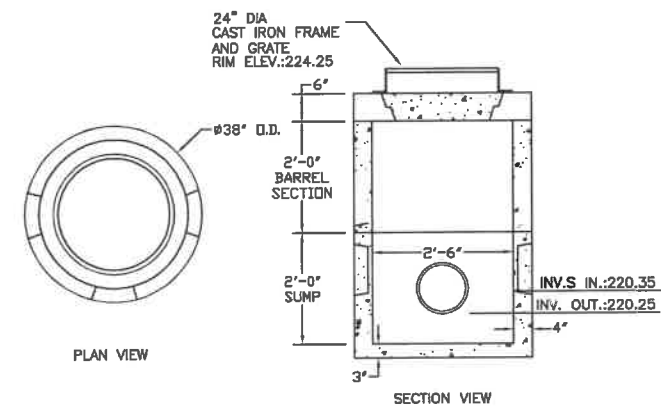
SPECIFICATIONS

- All construction shall conform with the State of New Hampshire Department of Transportation (NHDOT), "Standard Specifications for Road and Bridge Construction"; hereinafter referred to as the "Standard Specifications".
- Catch basins and manholes shall be pre-cast reinforced concrete designed by an engineer registered in New Hampshire, and able to withstand loadings of 8 tons (H2O Loading).
- Manholes shall have cast iron frames and covers with 30" inside diameter openings. A 3-inch (minimum) letter "D" for drain shall be plainly cast into the center of each cover.
- Catch basins and manholes shall be adjusted to grade with courses of brick. Maximum adjustment to grade shall be 12 inches. Frames shall be set on a full bed of mortar, true to grade and concentric with the masonry. All voids between the top of the structure and the bottom flange of the frame shall be completely filled to make a watertight fit. A ring of mortar at least one inch thick and pitched to shed water away from the frame, shall be placed over and around the outside of the bottom flange. The mortar shall extend to the outer edge of the masonry all around its circumference and shall be finished smooth. No visible leakage will be permitted.
- Invert channels of sewer manholes shall be formed smoothly to the largest pipe radius. Changes in grade shall be formed smoothly and evenly. The floor of the structure outside the channels shall be sloped towards the channels at approximately 1/2 inch per foot. The floor at the channel shall match the crown of the largest pipe.
- Trench construction will conform with Section 603.3.1 of the Standard Specifications (1974).
- Wood sheeting or a suitable trench box shall be used to support the trench as necessary. If wood sheeting is used, it shall be driven at a distance of 1 foot from the outside diameter of the pipe to a depth 6 inches below the invert of the pipe. Wood sheeting shall be cut off and left in place to an elevation not less than 1 foot above the top of the pipe, but not greater than 3 feet below the finished grade.
- Bedding shall conform with Section 603.3.2 of the Standard Specifications (1974).
- Backfill material will conform with Section 603.3.5 of the Standard Specifications (1974) and, in addition, shall exclude debris, pieces of pavement, organic matter, top soil, all wet or soft muck, peat or clay, all excavated ledge material, frozen material, all rocks over 6 inches in largest dimension, or any material which, as determined by the Engineer, will not provide sufficient support or maintain the completed construction in a stable condition. Backfill shall not be placed on frozen or previously frozen material.
- All backfill and bedding compaction shall meet the requirements of AASHTO 99 Method C. Density shall be 95 percent. Compaction shall be 6 inch lifts for bedding and backfill to a plane 1 foot above the pipe and in 12 inch lifts thereafter by an approved mechanical compactor.
- Should frozen material be encountered, it shall not be placed in the backfill nor shall backfill be placed upon frozen material. Previously frozen material shall be removed as required before new backfill is placed.
- The Contractor shall be responsible for any damage to frames and grates during and from the time of removal from the existing structure to and during the time of resetting, and shall replace in kind any damaged frames or grates at no additional compensation.
- All trenches will be covered and debris, including any rejected materials, shall be removed daily. Strict safety precautions shall be maintained at all times.
- Location of utilities shown on the plans are approximate.
 - the Contractor shall, 48 hours prior to construction, notify the utility companies and have all utilities in the vicinity of the construction marked in the field.
 - after the utilities have been located and prior to construction, the Contractor with the Engineer, shall layout the proposed drainage system in the field and rectify any utility conflicts which may be found.
 - Any conflicts with utilities found during construction by the Contractor shall be immediately brought to the attention of the Engineer and the Utility Company and properly rectified.
 - The Contractor is responsible for the cost of repair for any utilities damaged during construction. The Contractor shall contact the Utility Company to repair any damages, however, the Contractor may make appropriate repairs with the Utility Company's permission.
- Complete shop drawings for pipe, manholes, catch basins, frames, grates and covers shall be submitted in triplicate for approval by the Engineer prior to the start of construction. Each shop drawing shall be checked and initialized by the Contractor to indicate approval before it is submitted to the Engineer.
- Shop drawings for flat concrete covers shall be stamped prior to submission for approval by a New Hampshire Registered Professional Engineer.
- Brick masonry for setting frames and brick and mortar plugs shall conform to the Standard Specification Section 604.2.4.



- NOTES:
- PLACE SILT/SOX AROUND BIORETENTION AREA PRIOR TO CONSTRUCTION OF BIORETENTION SYSTEM.
 - THE BIORETENTION BASIN SUBGRADE SHALL BE EXCAVATED TO THE DESIGN DEPTH PLUS TWO (2) INCHES. AT THAT DEPTH FOUR (4) INCHES OF COMPOST SHALL BE TILLED INTO THE EXISTING SOILS SUCH THAT THE SOILS ARE WELL MIXED.
 - DO NOT DRIVE CONSTRUCTION EQUIPMENT ON FILTER SUBGRADE NOR ON THE FILTER MATERIAL. INSTALL FILTER MATERIAL BY MEANS OF AN EXCAVATOR LOCATED ADJACENT TO THE FILTER AREA.
 - MATERIALS: CRUSHED STONE LAYER SHALL MEET NHDOT 304.4. STONE SHALL CONTAIN NO MORE THAN 5% FINES PASSING THE #200 SIEVE. TOPSOIL SHALL CONTAIN 15 TO 25% FINES PASSING THE #200 SIEVE. MULCH SHALL BE SHREDDED HARDWOOD, AGES IN A STOCKPILE OR STORED FOR AT LEAST 12 MONTH. NON-WOVEN GEOTEXTILE BE 4 TO 6 OZ. PER SQUARE YARD WITH A.O.S. OF #70 SIEVE OR LOWER, AND A MINIMUM FLOW RATE OF 125 GAL PER SQUARE FEET.
 - INITIAL ESTABLISHMENT: DURING THE FIRST 2-3 MONTHS OF ESTABLISHMENT WATER THE GARDEN ON A WEEKLY BASIS (TO SUPPLEMENT RAINFALL FOR TOTAL OF 1 INCH PER WEEK).
 - ANNUAL MAINTENANCE: IN THE SPRING OF EACH YEAR, ANY DEAD VEGETATION SHALL BE REMOVED TO ALLOW FOR NEW GROWTH, AND ANY ACCUMULATED SEDIMENT (NORMALLY AT THE ENTRANCE TO THE GARDEN) SHALL ALSO BE REMOVED. DURING THE GROWING SEASON THE RAIN GARDEN SHALL BE WEEDED TWO (2) TIMES AND ADDITIONAL HARDWOOD MULCH SHALL BE ADDED AS NEEDED TO ASSIST IN WEED SUPPRESSION. TURF AT FILTER SHALL BE MOWED NO MORE THAN 3 TIMES PER GROWING SEASON. IF WATER PONDS ON THE SURFACE FOR MORE THAN 24 HOURS DURING THE FIRST YEAR OR 72 HOURS THEREAFTER, THE FILTER SURFACE SHALL BE AERATED WITH DEEP TINES OR THE SURFACE REPLACED.

BIORETENTION BASIN DETAIL
NOT TO SCALE



- NOTES:
- CONCRETE: 5,000 PSI MINIMUM AFTER 28 DAYS.
 - DESIGNED FOR AASHTO HS-20 LOADING, 1-5 FEET COVER.

SECTIONS	ITEM NO	WEIGHT
1'-0" RISER	MC-MCB12RH	440#
2'-0" RISER	MC-MCB24RH	880#
3'-0" RISER	MC-MCB36RH	1320#
2'-0" BASE	MC-MCB24SH	1175#
2'-0" BARREL	MC-MCB24BSH	880#
38" COVER	MC-MCB38CH	585#

OUTLET CONTROL STRUCTURE OCS1
NOT TO SCALE

NOT FOR CONSTRUCTION FOR PERMIT USE ONLY

DATE: 6-18-21
SCALE: 1"=20'
DRAWN BY: SRD
DESIGNED BY: D.L.
APPROVED BY: J.H.
PROJECT NO: 1764
FILE: STEDING

CIVILWORKS NEW ENGLAND
181 Wilson Road, P.O. Box 1166
Dover, New Hampshire 03821
903.749.0443

REVISION

NO.	REVISION	DATE
1	REVISED PER TRG COMMENTS	5/14/21
2	REV. PER P.E. CONDITIONS OF APP.	6/18/21

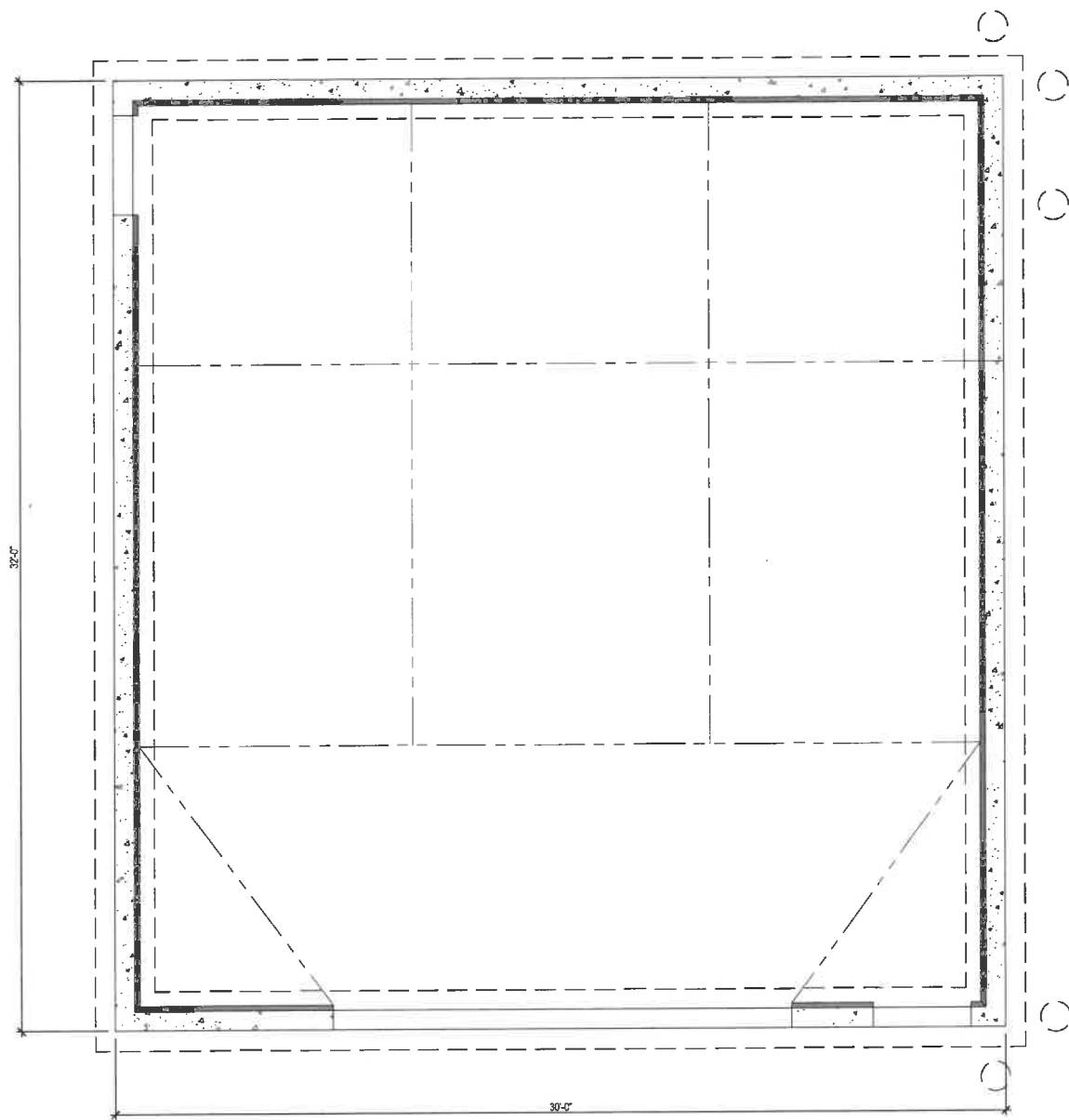
STATE OF NEW HAMPSHIRE
STEPHEN J. HAUGHT
No. 7878
LICENSED PROFESSIONAL ENGINEER

ROCHESTER FAMILY HOUSING, INC
C/O ROCHESTER HOUSING
AUTHORITY ACRES
13 WELLSWEEP ACRES
ROCHESTER, NH 03867

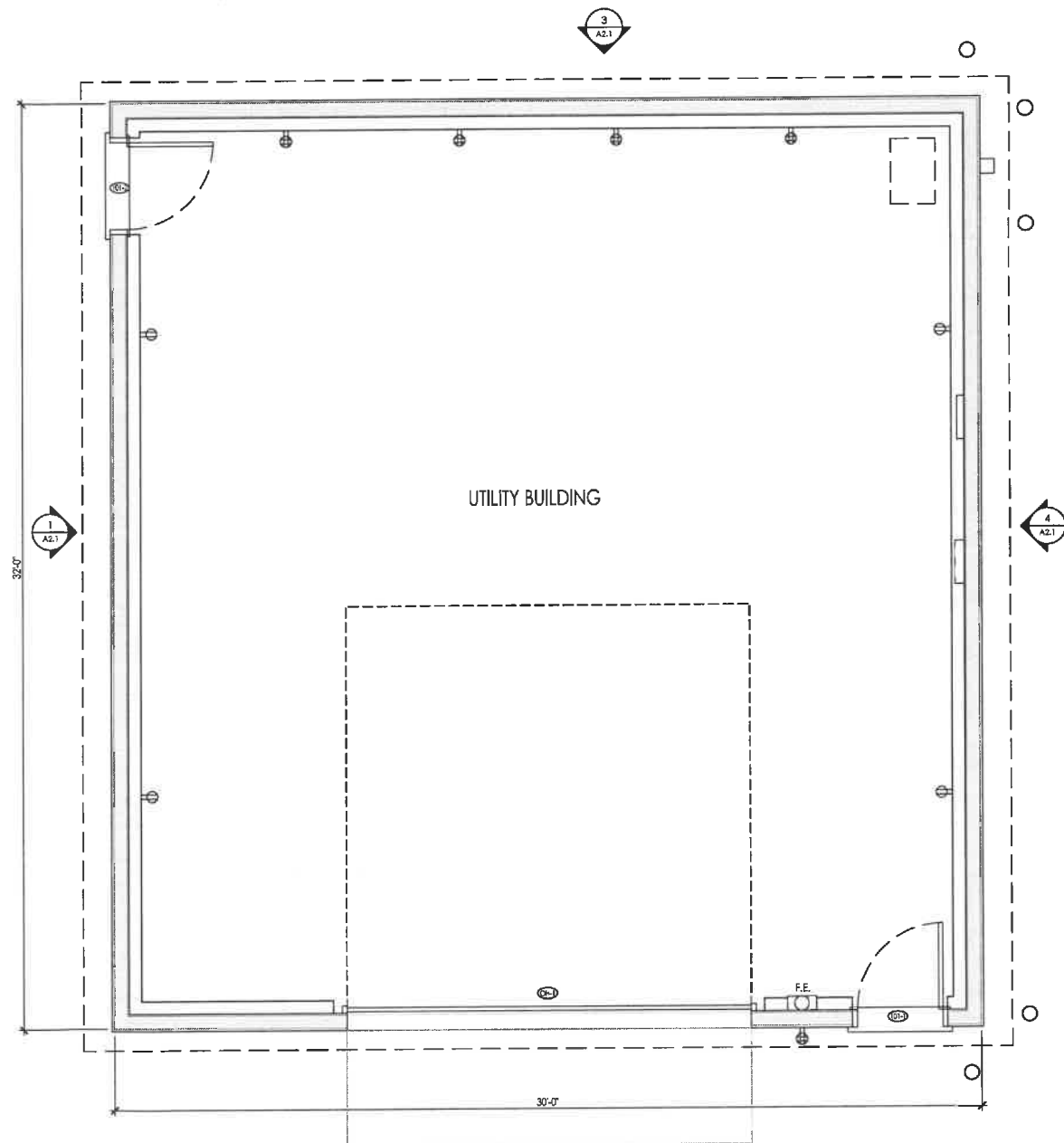
UTILITY BUILDING
TAX MAP 131, LOT 59
ROCHESTER, NH

DETAILS

9

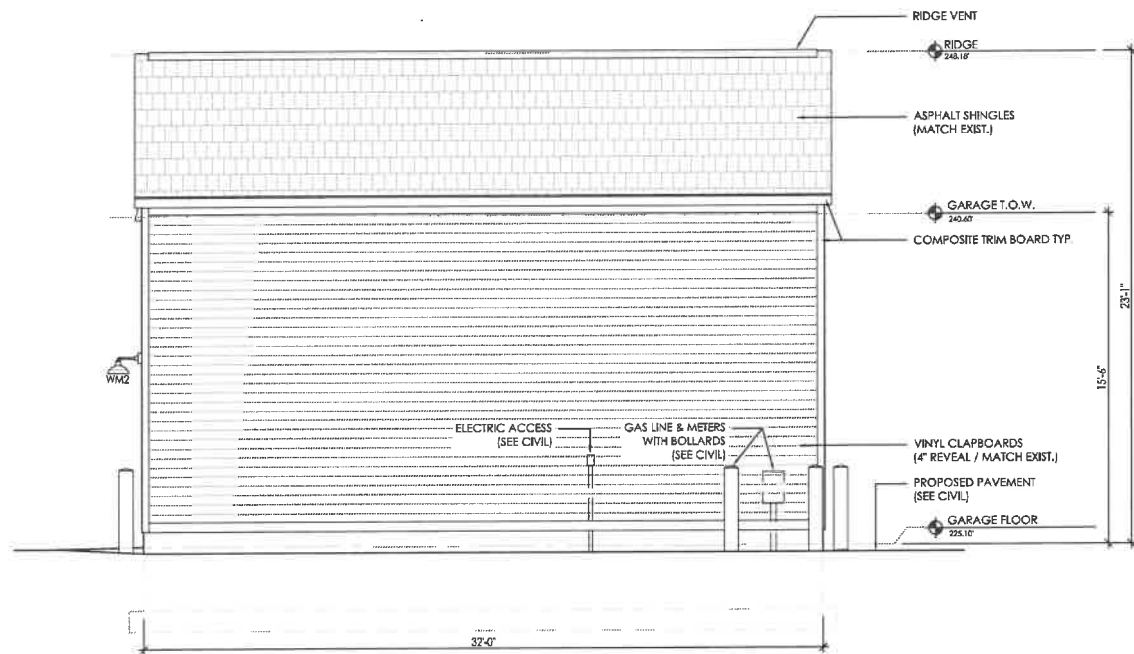


2 FOUNDATION PLAN
SCALE: 3/8" = 1'-0"

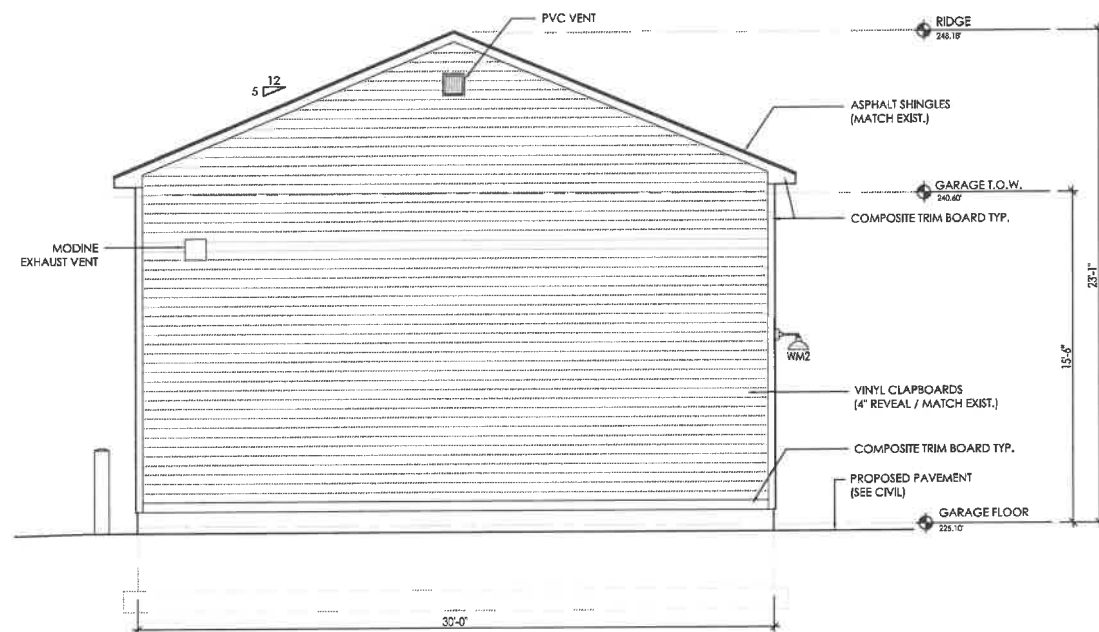


1 FLOOR PLAN
SCALE: 3/8" = 1'-0"

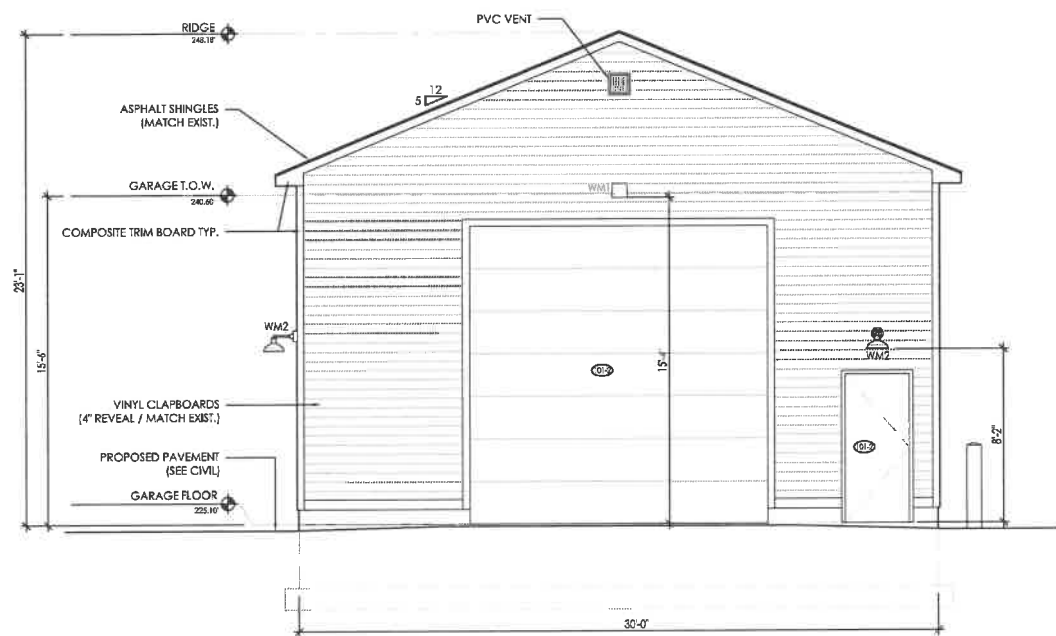
Owner Housing Authority of the City of Rochester 77 Olde Farm Lane, Rochester, NH 03867 P: 603.332.4126	
Architectural PORTONE ARCHITECTS 959 Islington Street Portsmouth, NH 03801 603.436.8881 info@portonearchitects.com CORPORATE: 100201 BY PORTONE ARCHITECTS, INC. ALL RIGHTS RESERVED	
Structural	
Fire Protection	
Plumbing	
HVAC	
Electrical	
Seal	
Date	
Description	
Rev. No.	
Project COLD SPRING MANOR ROCHESTER, NH	Date MARCH, 30 2020
Phase UTILITY BUILDING	Scale As Noted
Permit Documents	Drawn By: BG Reviewed By: WD
Sheet Contents FLOOR PLAN & FOUNDATION PLAN	
Sheet No. A1.1	



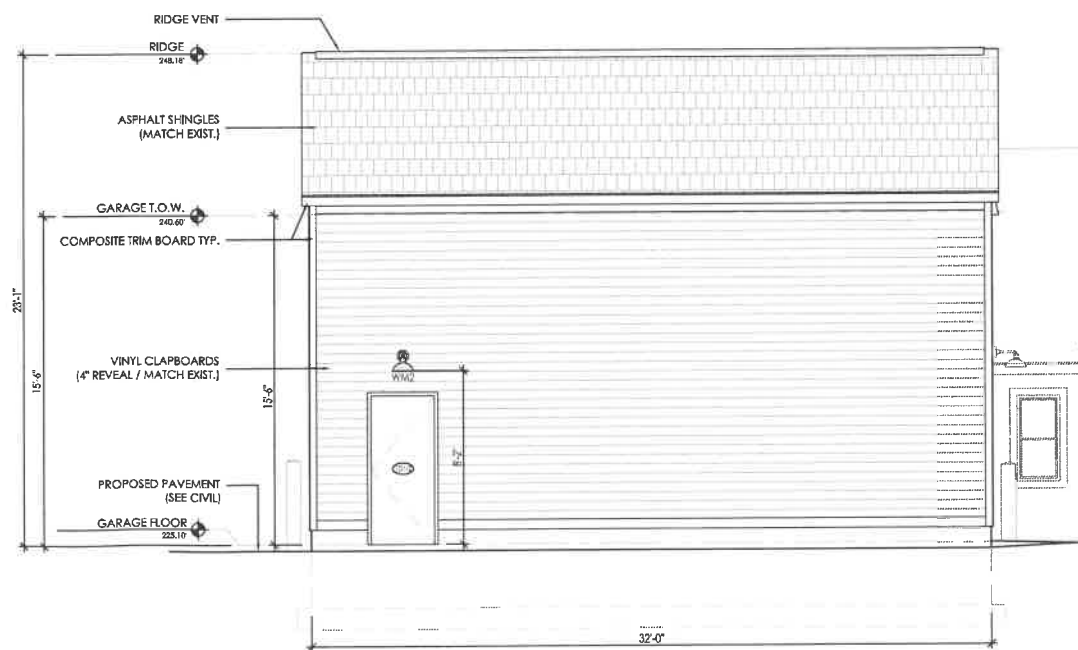
4 SOUTHEAST ELEVATION
SCALE: 1/4" = 1'-0"



3 NORTHEAST ELEVATION
SCALE: 1/4" = 1'-0"



2 NORTHWEST ELEVATION
SCALE: 1/4" = 1'-0"



1 SOUTHWEST ELEVATION
SCALE: 1/4" = 1'-0"

Owner Housing Authority of the City of Rochester 77 Olde Farm Lane, Rochester, NH 03867 P: 603.332.4128	
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Structural	
Fire Protection	
Plumbing	
HVAC	
Electrical	
Soil	
Date	
Description	
Rev. No.	
Project	COLD SPRING MANOR ROCHESTER, NH
Project No.	20-065
Scale	As Noted
Sheet Contents	Date: MARCH, 30 2020 Drawn By: BG Reviewed By: WD
Phase	UTILITY BUILDING PERMIT DOCUMENTS
EXTERIOR ELEVATIONS	
Sheet No.	A2.1